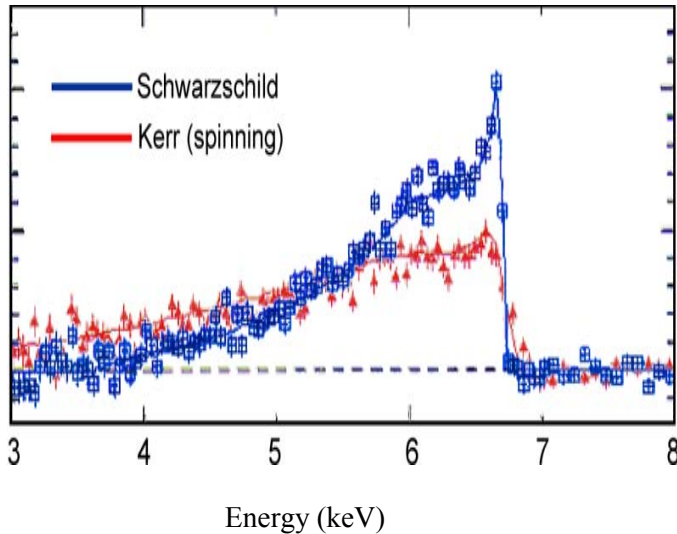
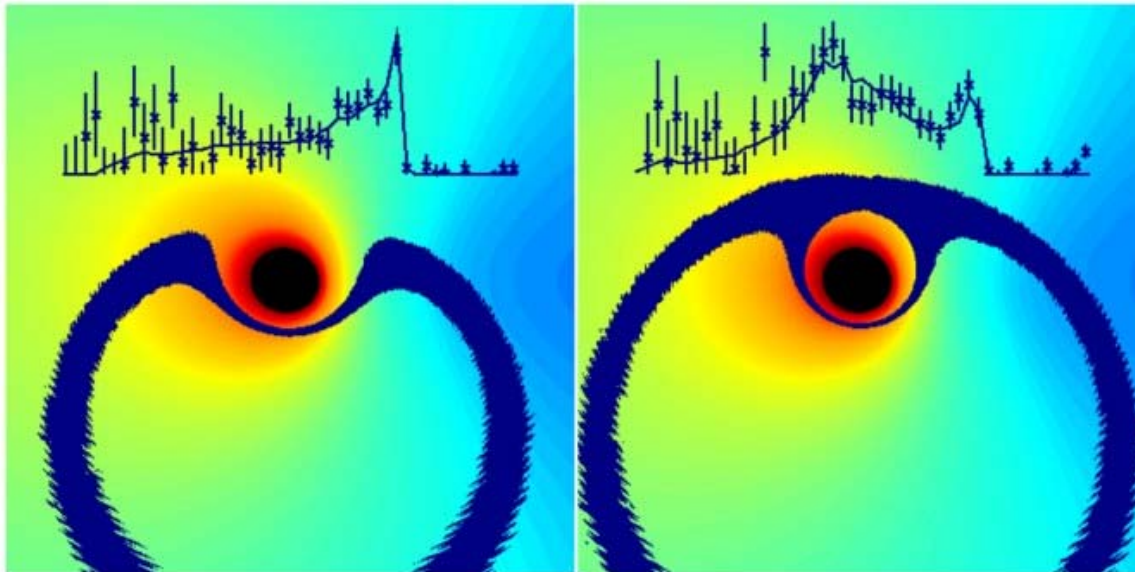




Probing Black Holes



- **Constellation-X will probe close to the event horizon with 100 times better sensitivity than before**
 - Observe iron profile from close to the event horizon where strong gravity effects of General Relativity are seen
 - Investigate evolution of black hole properties by determining spin and mass over a wide range of luminosity and redshift



Simulated images of the region close to the event horizon illustrate the wavefront of a flare erupting above material spiralling into the black hole. The two spectra (1000 seconds apart) show substantial distortions due to GR effects.